



nanopore sequencing

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Patents

Patents 1 - 10 on nanopore sequencing. (0.02 seconds)

Sequencing method using magnifying tags

US Pat. 6723513 - Filed Jun 22, 2001 - Lingvitae AS

15 shows the method of binary end conversion before **nanopore sequencing** in which the procedure to produce target molecule containing conversion adapters is ...

Method and apparatus for nucleic acid sequencing and identification

US Pat. 7005264 - Filed May 20, 2002 - Intel Corporation

The method of claim 1, wherein each **nanopore** is operably coupled to a detector.

3. The method of claim 1, wherein only one labeled nucleic acid passes ...

Methods and apparatus for nucleic acid sequencing by signal stretching and data integration

US Pat. 6952651 - Filed Jun 17, 2002 - Intel Corporation

In certain embodiments of the invention, the **nanopore** 150 is between 1 and nm

... In particular embodiments, the **nanopore** 150 may be located within a lipid ...

Molecular and atomic scale evaluation of biopolymers

US Pat. 6627067 - Filed Jun 22, 2000 - President and Fellows of Harvard College

60/140201 entitled "Method for Producing and Controlling the Size of Holes in Membranes, with Application to Voltage-Controlled **Nanopore Sequencing** of DNA ...

Lithographic fabrication of nanoapertures

US Pat. 6503409 - Filed May 25, 2000 - Sandia Corporation

Conventional technology can at best produce holes with diameters of 40-50 nm,

whereas the requirement for a **sequencing nanopore** is roughly 2 nm. ...

Solution-based methods and materials for sequence analysis by hybridization

US Pat. 6537755 - Filed Mar 27, 2000

In preferred embodiments of the method, a reader comprising a **nanopore** channel

... is particularly advantageous for **sequencing** and resequencing applications ...

Biosensor compositions and methods of use

US Pat. 6916665 - Filed Feb 12, 2001 - The Texas A&M University System

A DNA-**nanopore** was also used to sequence a codon on a single strand of DNA.

The **sequencing** principle was based on the match/mismatch-dependent binding time ...

Methods and devices for characterizing duplex nucleic acid molecules

US Pat. 6936433 - Filed Nov 21, 2001 - The Regents of the University of California

A **nanopore** device for characterizing an unlabeled duplex nucleic acid molecule

... A kit for use in **sequencing** a duplex DNA molecule, said kit comprising: a ...

Miniature support for thin films containing single channels or nanopores and methods for using same

US Pat. 6267872 - Filed Oct 29, 1999 - The Regents of the University of California

The device according to claim 2, wherein said **nanopore** 15. ... heptameric channel

of of characterizing is a method of **sequencing** a nucleic acid. a means for ...

Characterization of individual polymer molecules based on monomer-interface interactions

US Pat. 6673615 - Filed Feb 20, 2002 - President and Fellows of Harvard College

The state of the analyte is easily detected using the **nanopore** by ... This embodiment

of the **sequencing** invention is encompassed by pulling a single ...



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[S Weiss](#)

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[P Schultz](#)

Sequence information can be obtained from single DNA molecules - all 19 versions

»

I Braslavsky, B Hebert, E Kartalov, SR Quake - Proceedings of the National Academy of Sciences, 2003 - National Acad Sciences

... Exchange **Sequence** for **Single-Pair FRET** Sequencing ... tags were bleached by the green **laser** illumination (Fig ... incorporations of fluorophores in a **single** template can ...

Cited by 61 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Single Molecule Detection in Life Sciences - all 3 versions

Y Ishii, T Yanagida - **Single Molecules**, 2000 - doi.wiley.com

... while the other end was fixed by a **laser** trap ... Combining this with SMD, it has been demonstrated that **FRET** can be ... A **single** EGF molecule can be seen as a spot and ...

Cited by 55 - [Related Articles](#) - [Web Search](#)

Single-molecule fluorescence spectroscopy of enzyme conformational dynamics and cleavage mechanism - all 12 versions

T Ha, AY Ting, J Liang, WB Caldwell, AA Deniz, DS ... - Proceedings of the National Academy of Sciences, 1999 - National Acad Sciences

... The instantaneous **FRET** efficiency $E(t)$ was calculated from the ... at 23°C. The 514-nm excitation **laser** spot (Ar ... b) Emission time trace of a **single** double-labeled ...

Cited by 141 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

... molecule sorting: Analysis of structure and interactions by alternating-laser excitation of single ... - all 10 versions

AN Kapanidis, NK Lee, TA Laurence, S Doose, E ... - Proceedings of the National Academy of Sciences, 2004 - National Acad Sciences

... Abbreviations: ALEX, alternating-**laser** excitation; A, acceptor; D, donor; **FRET**, Förster resonance energy ... activator protein; spFRET, **single-pair FRET** ...

Cited by 37 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Accurate FRET Measurements within Single Diffusing Biomolecules Using Alternating-Laser Excitation - all 10 versions

NK Lee, AN Kapanidis, Y Wang, X Michalet, J ... - Biophysical Journal, 2005 - Biophysical Soc

... F, which represent photon counts per diffusing **molecule**). ... main reason why conventional **single-laser** excitation spFRET underperforms on **FRET** species with ...

Cited by 26 - [Related Articles](#) - [Web Search](#)

Single-Molecule Measurement of Protein Folding Kinetics - all 11 versions

EA Lipman, B Schuler, O Bakajin, WA Eaton - Science, 2003 - sciencemag.org

... 1/e 2 intensity contour of the **laser** beam is ... In an ensem- ble **FRET** experiment, both collapse and fold ... Recent advances in **single-molecule** enzymat- ic assays have ...

Cited by 86 - [Related Articles](#) - [Web Search](#)

Probes for Detection of Specific DNA Sequences at the Single-Molecule Level - all 8 versions

JP Knemeyer, N Marmé, M Sauer - Cytometry, 1999 - atto-tec.de

... were excited by a pulsed diode **laser** emitting at ... conformational change that forces the **FRET** donor and ... for homogeneous assays at the **single-molecule** level (nano ...



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